



Termix VX Compact 20

Indirect substation for multi-family houses and apartment buildings with up to 14 apartments

District heating substation for indirect heating. Designed for wall-mounting.

Application

The Termix VX Compact 20 substation is a complete solution for space heating with optimal safety, efficient energy transfer, service-friendly construction and a compact design. The substation is applicable, if a heat exchanger is required or on a conversion to district heating, where the existing equipment is unsuitable for direct connection. The Termix VX Compact 20 is ideal, where a high level of security against burst pipes and water damage in the heating system is required.

District heating (DH)

The district heating circuit is prefabricated with a differential pressure controller as well as thermometers and ball valves.

Heating (HE)

The heating circuit consists of a plate heat exchanger, safety valve, manometer, thermometers, ball valves, drain valve, air valve, and circulation pump. The heating temperature can be controlled thermostatically or by an electronic controller with an outdoor temperature sensor. Depending on the application, different heat exchangers dimensioned for central or floor heating can be used.

Domestic hot water (DHW)

Termix VX Compact 20 is supplied with connection pipes for a DHW tank on the supply line.

Options

The substation can be equipped with a thermostat with safety monitor as an option. This is possible only for substations with an electronic controller.

Construction

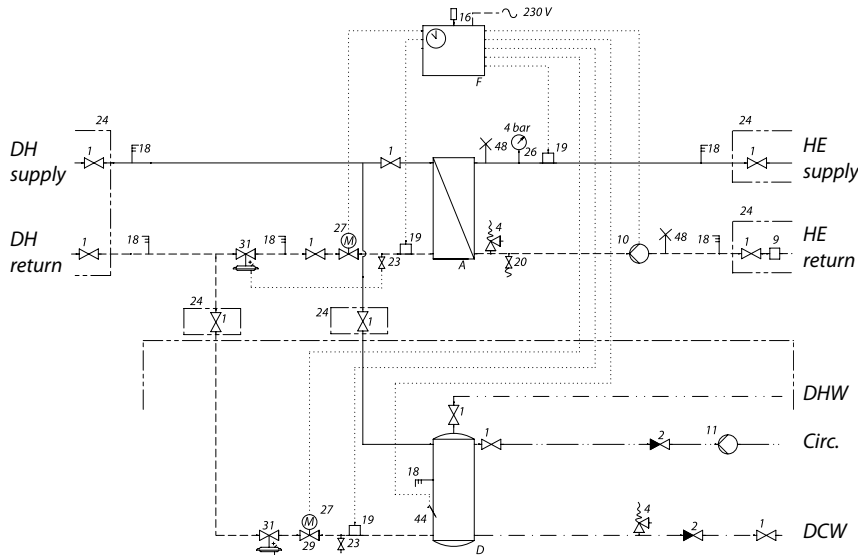
All pipes are made of stainless steel. The connections are made by nuts and gaskets. Termix VX Compact 20 can be delivered with a white-lacquered steel cover in attractive design.

FEATURES AND BENEFITS

- Substation for multi-family houses and apartment buildings
- Indirect heating, connections for DHW tank
- Thermostatic or electronic control of heating (HE) temperature
- Capacity: 50-80 kW heating
- Minimum space required for installation
- Pipes and plate heat exchanger made of stainless steel

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Circuit diagram - example



- A Plate heat exchanger HE
- D DHW tank
- F Electronic controller
- 1 Ball valve
- 2 Non-return valve
- 4 Safety valve
- 9 Strainer
- 10 Circulation pump
- 11 DHW pump
- 16 Outdoor sensor
- 18 Thermometer
- 19 Surface sensor
- 20 Filling/drain valve
- 23 Ball valve
- 24 Delivered loose with unit
- 26 Manometer
- 27 Actuator
- 29 2-way motorized valve
- 31 Differential pressure controller
- 44 Immersion sensor
- 48 Air escape, manual

Technical parameters:

Nominal pressure: PN 16
 DH supply temperature: $T_{max} = 120\text{ }^{\circ}\text{C}$
 Brazing material (HEX): Copper

Weight incl. cover: 30-40 kg
 (incl. packing)

Cover: White-lacquered steel sheet

Dimensions (mm):

Without cover: H 815 x W 505 x D 240
 With cover: H 815 x W 540 x D 360

Connections:

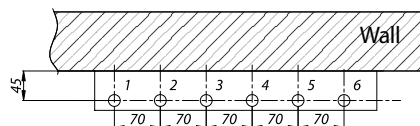
- 1 District heating (DH) supply
- 2 District heating (DH) return
- 3 Heating (HE) supply
- 4 Heating (HE) return
- 5 DHW (tank supply)
- 6 DCW (tank return)

Connections sizes:

DH + HE: G 1" (int. thread)
 DHW + DCW: G 3/4" (int. thread)

Options:

- White-lacquered stainless steel cover
- Thermostat with safety monitor
- Fitting piece and sensor pockets for insertion of a heat meter



Seen from above

Heating: Capacity examples

Heating Capacity kW	Heating circuit Primary °C	Heating circuit Secondary °C	Pressure loss Primary kPa	Flow rate Secondary l/h
50	70/40	35/60	35	1720
60	70/40	35/60	45	2064
60	80/45	40/70	35	1720
70	80/45	40/70	45	2007
70	90/45	40/70	35	2007
80	90/45	40/70	45	2293

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